DT02 Rec'd PCT/PT0

3 1 JAN 2005

PTO-1390 (Rev. 12-2004)

Approved for use through 3/31/2007. OMB 0651-0021 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. ATTORNEY'S DOCKET NUMBER 6192.0533.US TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) see 37 CFR 1.5) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 INTERNATIONAL APPLICATION NO. PCT/KR2003/001476 INTERNATIONAL FILING DATE PRIORITY DATE July 23, 2003 August 1, 2002 TITLE OF INVENTION HIGH SPEED HIGH-TEMPERATURE NEMATIC LIQUID CRYSTAL COMPOSITION AND LIQUID CRYSTAL DISPLAY COMPRISING THE SAME APPLICANT(S) FOR DO/EO/US Yong-Kuk YUN; Bong-Hee KIM; Bong-Sung SEO; Byeong-Seob BAN

| Ар | plica | nt herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: | | | | | | |
|-----|---|---|--|--|--|--|--|--|
| 1. | \boxtimes | This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. | | | | | | |
| 2. | | This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. | | | | | | |
| 3. | | This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. | | | | | | |
| 4. | \boxtimes | The US has been elected (Article 31). | | | | | | |
| 5. | \boxtimes | A copy of the International Application as filed (35 U.S.C. 371 (c)(2)) | | | | | | |
| | a. | is attached hereto (required only if not communicated by the International Bureau). | | | | | | |
| | b. | has been communicated by the International Bureau. | | | | | | |
| | C. | is not required, as the application was filed in the United States Receiving Office (RO/US). | | | | | | |
| 6. | \boxtimes | An English language translation of the International Application as filed (35 U.S.C. | | | | | | |
| | a. | ☑ is attached hereto. | | | | | | |
| | b. | has been previously submitted under 35 U.S.C. 154(d)(4). | | | | | | |
| 7. | \boxtimes | Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3)) | | | | | | |
| | a. | are attached hereto (required only if not communicated by the International Bureau). | | | | | | |
| | b. | ☐ have been communicated by the International Bureau. | | | | | | |
| | C. | have not been made; however, the time limit for making such amendments has NOT expired. | | | | | | |
| | d. | □ have not been made and will not be made. | | | | | | |
| 8. | | An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). | | | | | | |
| 9. | \boxtimes | An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). | | | | | | |
| 10. | An English language translation of the annexes to the International Preliminary Examination Report und Article 36 (35 U.S.C. 371 (c)(5)). | | | | | | | |
| | iten | ns 11 to 20 below concern document(s) or information | | | | | | |
| 11. | \boxtimes | An Information Disclosure Statement under 37 CFR 1.97 and 1.98. | | | | | | |
| 12. | | An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. | | | | | | |
| 13. | | A preliminary amendment. | | | | | | |
| 14. | | An application Data Sheet under 37 CFR 1.76. | | | | | | |
| 15. | | A substitute specification. | | | | | | |
| 16. | | A power of attorney and/or change of address letter. | | | | | | |
| 17. | | A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 - 1.825. | | | | | | |
| 18. | | A second copy of the published International Application under 35 U.S.C. 154(d)(4). | | | | | | |
| 19. | | A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4). | | | | | | |
| 20. | ☒ | Other items or information: International Search Report; A PCT Notification of the Recording of a Change | | | | | | |

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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U.S. APPLICATION ME. APPLICATION ME

| U.S. APPLICAT | U.S. APPLICATION NO. (if known, see 37 CFR INTERNATIONAL APPLICATION NO. | | | | | | | | ATTORNEY'S DOCKET NUMBER | | | |
|--|---|---|------------------|---|------------|-------------------------------------|---------------|---------------------------------|--------------------------|-----|--|--|
| | 10/522683 PCT/KR200 | | | | | | | 6192.0533.US | | | | |
| 1 | ng fees are submit | | Ap | plicant use | Office use | only | | | | | | |
| ⊠ a) Basic na | ational fee | | | | | \$300.00 | \$ | \$300.00 | | | | |
| | ☑ b) Examination fee \$200.0 | | | | | | | | | | | |
| ⊠ c) Search fee | | | | | | | | \$500.00 | | | | |
| TOTAL OF ABOVE CALCULATIONS = \$1000.00 Additional fee for specification and drawings filed in paper over 100 sheets (excluding | | | | | | | | \$1,000.00 | | | | |
| Additional fe | | | | | | | | | | | | |
| Total Sheets | Extra Sheets | Number of each additional 50 or fraction thereof (round up to a whole | | | | | | | | | | |
| 62 - 100 = | -38 /50 = | | | 0 | | × \$250.00 | \$ | \$0.00 | | | | |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)). | | | | | | | | | | | | |
| CLAIMS | NUMBER | FILED | NU | MBER EXTRA | Г | RATE | | | | *.* | | |
| Total claims | 15 | - 20 = | | 0 | х | \$50.00 | \$ | \$0.00 | | | | |
| Independent clair | | - 3 = | | 0 | X | \$200.00 | \$ | \$0.00 | | | | |
| Multiple Depend | dent Claims (if a | | | | + | \$360.00 | \$ | | | | | |
| ☐ Applicant clain | ns small entity stat | TOTAL | OF | ABOVE CALCI 1.27. The fees indic | <u>JL</u> | ATIONS = | \$ | \$1,000.00 | | | | |
| reduced by 1/2 | 2. | \$ | \$0.00 | | | | | | | | | |
| Denoncia de la constante | Processing fee of \$130.00 for furnishing the English translation later than 30 months from | | | | | | | | | | | |
| the earliest claime | \$130.00 for furnished priority date (37 | \$ | | | | | | | | | | |
| | | \$ | \$1,000.00 | | | | | | | | | |
| Fee for recording be accompanied by | the enclosed assign | nment (37 (| CFR 1 | 1.21(h)). The assign FR 3.28, 3.31). \$40 | ıme | nt must | \$ | | | | | |
| | <u> </u> | \$1,000.00 | | | | | | | | | | |
| | ъ | \$1,000.00 | \$ | | | | | | | | | |
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| a. 🛛 A check | in the amount of | 61.000 | | | | be charged: | | | | | | |
| | arge my Deposit A | \$1,000 | .00 | | | fees is enclosed | l. | . | | ŀ | | |
| | te copy of this she | | ed. | | am | ount of | _ | _ to cover the | above fees. | - 1 | | |
| c. 🖾 The Com | missioner is hereby | authorized | l to ch | arge any additional | fee | s which may be | requi | red, or credit an | y overpaymei | nt | | |
| to Deposit | Account | 23-1951 | | . A duplicate copy | of th | nis sheet is encl | osed. | | | | | |
| informati | on should not be | included o | n this | form. Provide cred | dit c | ard information | come and a | public. Credit outhorization on | card PTO-2038. | j | | |
| NOTE: Where an (b)) must be filed | appropriate time and granted to re | limit under store the Ir | r 37 C nterna | FR 1.495 has not bational Application | ee to | n met, a petition pending status | n to r | evive (37 CFR | 1.137(а) ог | | | |
| SEND ALL COR | RESPONDENCE | E TO: | | | | | | | | | | |
| Hae-Chan Park, | Reg. No. 50,114 | | | | | \sim 1 | | 20 | ~ | 01 | | |
| McGuireWoods | LLP | | _ | < pm | 4 | h | | _+ | | | | |
| 1750 Tysons Bou McLean, VA 22 | levard, Suite 180 | 0_ | | | | SIGNATURE | | | | | | |
| Telephone No. 70 | 3-712-5365 | | Hae-Chan Park | | | | | | | | | |
| Facsimile No. 703 | 3-712-5280 | | | | _ | NAME | | | | - | | |
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